

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~striketrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

1. (previously presented) A display measuring method for measuring a display characteristic of an electronic display, comprising:
displaying a specific color patch on the electronic display;
counting a time that elapses after the color patch is displayed; and
measuring a color of the color patch displayed on the electronic display,
wherein the color patch is measured when the time that elapses after the color patch is displayed reaches a specific pre-determined time.
2. (withdrawn) A display measuring method for measuring a display characteristic of a display, comprising:
displaying a specific color patch on a display;
measuring a color of the color patch displayed on the display;
displaying a pre-determined image on the display after a measurement; and
counting a time that elapses after the predetermined image is displayed,
wherein a subsequent color patch is displayed when a specific time elapses after the predetermined image is displayed.
3. (canceled)
4. (withdrawn) A display measuring method for measuring a display characteristic of a display, comprising:
counting a prescribed time after the power of a display is switched on; and
displaying a color patch after the prescribed time elapses.
5. (previously presented) A display measuring method for measuring a display characteristic of a display, comprising:

displaying a specific color patch on a display;
counting a time that elapses after the color patch is displayed;
measuring a color of the color patch displayed on the display and wherein the color patch is measured when the time that elapses after the color patch display reaches a specific pre-determined time;
displaying the specific color patch on the display;
consecutively measuring colors of color patches displayed on the display;
storing a plurality of measurement results;
comparing the measurement result with a previous result and judging whether the measurement is stabilized; and
discarding the previous measurement result of the color patch and storing the measurement result obtained when the measurement is stabilized if the measurement is stabilized.

6. (previously presented) A display measuring method for measuring a display characteristic of a display, comprising:

displaying a specific color patch on a display;
counting a time that elapses after the color patch is displayed;
measuring a color of the color patch displayed on the display, wherein the color patch is measured when the time that elapses after the color patch display reaches a specific pre-determined time
counting a time required to judge that a measurement value is stabilized after the color patch display; and
setting the count result as a measurement interval, and
wherein the measurement interval set based on the m-th stabilization time is used for the n-th color patch (where, $n > m$).

7. (withdrawn) The display measuring method according to claim 2, comprising:
consecutively measuring images displayed in the image display step; and
comparing a plurality of measurement results obtained in the interval measurement step and judging whether a measurement value is stabilized,
wherein the subsequent color patch is displayed when the measurement value is judged to be stabilized.

8. (withdrawn) A profile generating method used in a display measuring method for measuring a display characteristic of a display, comprising:

judging which of a plurality of tone reproduction characteristic models prepared in advance best approximates a tone reproduction curve of the display, based on a measurement result; and

calculating a parameter of the model based on the measurement result.

9. (withdrawn) A display measuring method for measuring a display characteristic of a display based on a measurement value of a displayed color patch, comprising:

comparing a measurement value of a color patch of a first size with a measurement value of a color patch of a second size, which is smaller than the first size;

measuring the color patch of a third size, which is smaller than the second size as a result of the comparison when the measurement value of the color patch of the first size and the measurement value of the color patch of the second size are different; and

setting the first size as the size of the color patch if the measurement values of all the color patches are the same.

10. (withdrawn) A display measuring method for measuring a display characteristic of a display, comprising:

displaying a specific color patch on the display;

measuring a color of the color patch of a single color displayed on the display;

storing a measurement result;

calculating a color value with the plurality of colors combined from a plurality of measurement values stored in the measurement result storage step; and

comparing a color value calculated by the color additive-mixture with the measurement value obtained in the measurement step.

11. (withdrawn) A display measuring method for a display characteristic of a display, comprising:

displaying a specific color patch on the display;

measuring a color of the color patch displayed on the display;

comparing a plurality of previous RGB values and a plurality of current RGB values of the color patch;

comparing the measurement values of the color patch used in a color patch measurement value comparison step; and

comparing a result obtained in an RGB value comparison step with the result obtained in a measurement value comparison step.

12. (withdrawn) A display measuring method for measuring a display characteristic of a display, comprising:

measuring a white color patch displayed in a maximum color display step;
storing a measurement value obtained in a maximum color measurement step;
measuring a color of a color patch displayed on the display; and
comparing a measurement result in the measurement step with the measurement value stored in the maximum color storage step.

13. (withdrawn) A display profile generating method for storing a display characteristic of a display in a profile, comprising:

measuring a color tone value of the display;
generating a plurality of pieces of color reproduction curve information with a plurality of different numbers of a plurality of color tones based on color tone data obtained by measuring;
verifying the accuracy of the profile based on the tone reproduction curve information generated in the tone reproduction curve information generation step; and
generating the profile using tone reproduction curve information with the highest accuracy.

14. (withdrawn) A display profile generating method for storing a display characteristic of a display, comprising:

measuring at least two colorless color patches;
detecting dispersion in a measurement value of a colorless image based on a measurement result in the colorless measurement step;
comparing a dispersion value calculated in the dispersion calculation step with a pre-determined threshold value; and
measuring a color tone value of the display,
wherein in the color tone data measurement step, a TRC obtained by measuring only color tone data of one color is stored in the profile as the color tone data of the color if the dispersion in the measurement values of a colorless image is less than the pre-determined

threshold value, and respective TRCs obtained by measuring the color tone data of each color are stored in the profile if the dispersion is equal to or more than the pre-determined threshold value.

15. (withdrawn) A display profile generating method for storing a display characteristic of a display in a profile, comprising:
storing reference data used to convert measurement data;
converting a measurement value using the reference data; and
generating the profile using the value obtained by converting the measurement value, wherein the reference data used to convert the measurement data are stored in the profile to be generated.

16. (withdrawn) A display profile generating method for storing a display characteristic of a display in a profile, comprising:
setting a tone reproduction characteristic; and
designating a basic profile,
wherein information about the tone reproduction characteristic in the basic profile is rewritten to the tone reproduction characteristic set in the tone reproduction characteristic-setting step.

17. (withdrawn) A display profile generating method for storing a display characteristic of a display in a profile, comprising:
setting a color temperature; and
designating a basic profile,
wherein the color information stored in the basic profile is rewritten based on the color temperature set in the color temperature-setting step.

18. (withdrawn) A profile generating method, comprising:
displaying a color patch;
measuring the displayed color patch;
generating a TRC based on both the measurement value and a basic profile; and
replacing a TRC in the basic profile with the TRC generation step.

19. (withdrawn) A display profile generating method for storing a display characteristic of a display in a profile, comprising:
measuring a color patch displayed on the display;
generating a plurality of color conversion tables with a plurality of different numbers of a plurality of grids based on grid data obtained by measurement;
verifying the accuracy of the profile based on the color conversion table generated in the color conversion table generation step; and
generating the profile using the color conversion table with the highest accuracy.

20. (withdrawn) A display profile generating method for storing a display characteristic of a display in a profile, comprising:
storing a number of a plurality of color conversion tables for each type of a display; and
determining the number of the color conversion tables depending on the type of the display,
wherein the profile is generated by measuring based on a number of a plurality of nodes of a TRC preset for each display.

21. (withdrawn) A display profile generating method for storing a display characteristic of a display in a profile, comprising:
displaying a color patch with color tone data on the display;
measuring the color patch displayed on the display;
generating grid data from a plurality of measurement values of color tone data of R, G and B color elements by color additive-mixture; and
generating the profile from the grid data.

22. (withdrawn) A display profile generating method for storing a display characteristic of the display in a profile, comprising:
displaying a color patch on a display;
measuring the color patch displayed on the display;
measuring both an image composed of only a plurality of primary colors and the image of a secondary or tertiary color;
generating a measurement value of the secondary or tertiary color from the measurement value of the primary color by color additive-mixture;

comparing the measurement value of the secondary or tertiary color with an operation value obtained from the measurement value of the primary color by color additive-mixture; and generating the profile from the grid data,

wherein the profile is generated using the grid data calculated from a color tone value if color additive –mixture accuracy is high, and is generated using the measurement value obtained by measuring if color additive-mixture accuracy is low.

23. (withdrawn) The profile generating method according to claim 22, comprising:
measuring color tone data of n color tones;
measuring grid data of m grids ($m < n$);
generating grid data of s grids ($s > m$) using the n -color-tone data and m -grid data; and
generating the profile from the grid data.

24. (withdrawn) A display profile generating method for storing a display characteristic of a display in a profile, comprising:
measuring a color patch displayed on the display;
generating a matrix profile that stores TRC information;
generating an LUT profile that stores LUT information;
calculating the accuracy of the generated matrix profile;
calculating the accuracy of the generated LUT profile; and
selecting either the matrix or LUT profile based on the calculated accuracy.

25. (withdrawn) A profile accuracy verifying method for verifying the accuracy of a display profile, comprising:
displaying a color patch for accuracy verification;
measuring the color patch for accuracy verification;
comparing an operation value obtained using the profile with the measurement result of the color patch for accuracy verification; and
verifying the accuracy of the profile based on a comparison result.

26. (withdrawn) A profile accuracy verifying method for verifying the accuracy of a display profile, comprising:
storing an image for evaluation;
converting the evaluation image using the profile; and

displaying both the evaluation image and conversion image converted using the profile.

27. (withdrawn) A display profile generating method for storing a display characteristic of a display in a profile, comprising:
displaying a color patch on the display;
measuring the color patch displayed on the display;
generating the profile using a measurement result;
storing an evaluation image;
converting the evaluation image using the generated profile; and
displaying both the evaluation image and a conversion image converted using the profile.

28. (previously presented) A device for measuring a display characteristic of an electronic display, comprising:
means for displaying a specific color patch on the electronic display;
means for counting a period that elapses after the color patch is displayed; and
means for measuring a color of the color patch displayed on the electronic display,
wherein the color patch is measured when a specific pre-determined time elapses after the color patch is displayed.

29. (withdrawn) A device for measuring a display characteristic of a display, comprising:
means for displaying a specific color patch on the display;
means for measuring color of the color patch displayed on the display;
means for displaying a pre-determined image after the measurement; and
means for counting a period that elapses after displaying the image,
wherein a subsequent color patch is displayed when a specific period elapses after the image display.

30. (previously presented) A device for measuring a display characteristic of a display, comprising:
means for displaying an image before starting measurement of a color patch;
means for counting a period that elapses after displaying the image;
means for displaying a specific color patch on the display; and
means for measuring a color of the specific color patch displayed on the display,

wherein when a specific period elapses after displaying the image, the specific color patch is displayed and the measurement is started.

31. (withdrawn) A device for measuring a display characteristic of a display based on a measurement value of a displayed color patch, comprising:

means for comparing a measurement value of a color patch of a first size with the measurement value of the color patch of a second size, which is smaller than the first size;

means for measuring the color size of a third size, which is smaller than the second size, if as a comparison result, the measurement value of the color patch of the first size and measurement value of the color patch of the second size are different; and

means for setting the first size as the size of the color patch if the measurement value of the color patch of the first size and the measurement value of the color patch of the second size are the same.

32. (withdrawn) A device for measuring a display characteristic of a display based on a measurement value of a displayed color patch, comprising:

means for measuring a white color patch displayed in a maximum color display step;

means for storing the measurement value obtained in the maximum color measurement step;

means for displaying a color of the color patch displayed on the display; and

means for comparing a measurement result obtained in the measurement step with the measurement value stored in a maximum color storage step.

33. (withdrawn) A device for generating a display characteristic of a display as a profile, comprising:

means for measuring at least two colorless color patches;

means for detecting dispersion in a measurement value of a colorless image based on a measurement result in a colorless measurement step;

means for comparing a dispersion value calculated in a dispersion calculation step with a pre-determined threshold value; and

means for measuring a color tone value of the display,

wherein in a color tone data measurement step, a TRC obtained by measuring color tone data of only one color is stored in the profile as color tone data of each color if the dispersion value of the measurement value of the colorless image is less than the predetermined threshold

value, and respective TRCs obtained by measuring respective color tone data of each color are stored in the profile if the dispersion value is equal to or more than the predetermined threshold value.

34. (withdrawn) A device for generating a display characteristic of a display as a profile, comprising:

means for displaying a color patch on the display;

means for measuring the color patch displayed on the display;

means for measuring both an image composed of a plurality of only primary colors and the image of a secondary or tertiary color;

generating a measurement value of the secondary or tertiary color from the measurement value of a primary color by color additive-mixture;

comparing the measurement value of the secondary or tertiary color with an operation value obtained from the measurement value of the primary color by color additive-mixture; and

generating the profile from grid data,

wherein the profile is generated using the grid data calculated from a color tone value if color additive-mixture accuracy is high, and it is generated using the measurement value obtained by measuring if color additive-mixture accuracy is low.

35. (withdrawn) A device for verifying the accuracy of a display profile, comprising:

means for storing an image for evaluation;

means for converting an evaluation image using the profile; and

means for displaying both the image for evaluation and a conversion image converted using the profile.

36. (withdrawn) A display measuring method for measuring a display characteristic of a display, comprising:

displaying a specific color patch on a display;

measuring a color of the color patch displayed on the display;

displaying a pre-determined image on the display after a measurement;

counting a time that elapses after the display of the predetermined image and wherein a subsequent color patch is displayed when a specific time elapses after the predetermined image is displayed;

counting a time required to judge that a measurement value is stabilized after the color patch display; and

setting the count result as a measurement interval and wherein the measurement interval set based on the m-th stabilization time is used for the n-th color patch (where, $n > m$).

37. (withdrawn) A display measuring method for measuring a display characteristic of a display, comprising:

displaying an image on a display before a color patch starts to be measured;

counting a time that elapses after the display;

displaying a specific color patch on the display;

measuring a color of the specific color patch displayed on the display and wherein when a specific time elapses after the image is displayed, the specific color patch is displayed and a measurement is started;

counting a time required to judge that a measurement value is stabilized after the color patch display; and

setting the count result as a measurement interval and wherein the measurement interval set based on the m-th stabilization time is used for the n-th color patch (where, $n > m$).

38. (withdrawn) A display measuring method for measuring a display characteristic of a display, comprising:

counting a prescribed time after the power of a display is switched on;

displaying a color patch after a prescribed time elapses;

counting a time required to judge that a measurement value is stabilized after the color patch display; and

setting the count result as a measurement interval and wherein the measurement interval set based on the m-th stabilization time is used for the n-th color patch (where, $n > m$).

39. (previously presented) A display measuring method for measuring a display characteristic of a display, comprising:

displaying a specific color patch on a display;

counting a time that elapses after the color patch is displayed;

measuring a color of the color patch displayed on the display and wherein the color patch is measured when the time that elapses after the color patch display reaches a specific pre-determined time;

- displaying the specific color patch on the display;
- consecutively measuring colors of color patches displayed on the display;
- storing a plurality of measurement results;
- comparing the measurement result with a previous result and judging whether the measurement is stabilized;
- discarding the previous measurement result of the color patch and storing the measurement result obtained when the measurement is stabilized if the measurement is stabilized;
- counting a time required to judge that a measurement value is stabilized after the color patch display; and
- setting the count result as a measurement interval and wherein the measurement interval set based on the m-th stabilization time is used for the n-th color patch (where, $n > m$).

40. (previously presented) A display measuring method for measuring a color display characteristic of a display, comprising:

- displaying a color patch on the display; and
- measuring a color of the color patch on the display a predetermined time after the displaying the color patch on the display.

41. (previously presented) A display measuring method for measuring a color display characteristic of a display, comprising:

- displaying a color patch on the display; and
- measuring a color of the color patch on the display after a steady state is reached.